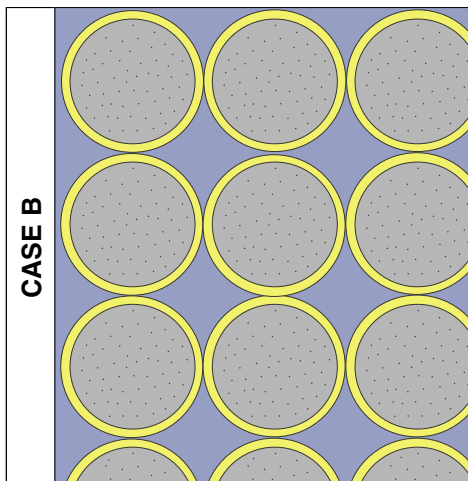
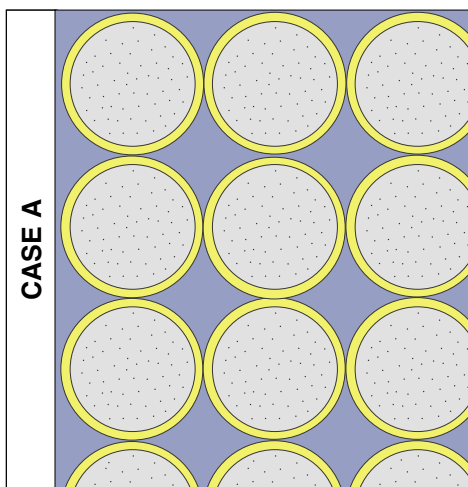






E·FILL™

Influence of True Particle Density



-  Light Nickel Clad Core (Ni/Graphite, etc.)
-  Gold
-  Heavy Nickel Clad Core (Ni/Graphite, etc.)
-  Polymer

Conclusions:

- 1) The total gold content per unit volume of conductive polymer is the same in both cases.
- 2) Filler weight % loading is higher in Case B compared to Case A.
- 3) Filler volume % loading in Case A is the same as in Case B.
- 4) The conductive polymer density in Case A is lower compared to Case B.
- 5) Filler gold content by weight % in Case A is higher compared to Case B.
- 6) The number of contacts among particles per unit volume of conductive rubber is the same in both cases because the particle size is identical in both cases.

$$\text{True Particle Density} = \text{Particle Volume} / \text{Particle Weight}$$

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